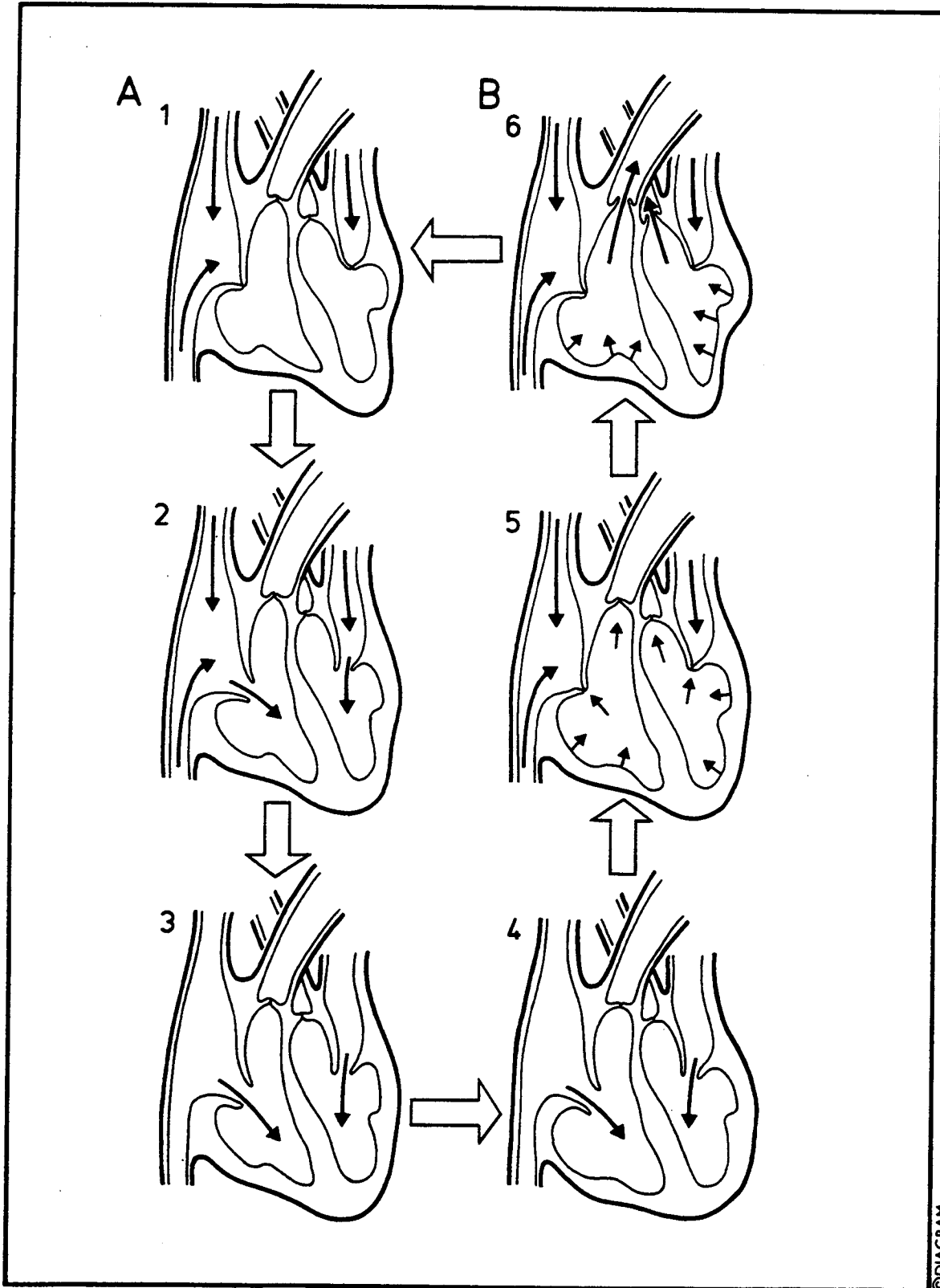


# Heart: cardiac cycle

06.020



Sequence of diagrams showing pumping action of the heart

- A** Diastole (relaxation of heart muscle)
  - B** Systole (contraction of heart muscle)
- 1** Atria fill – atrio-ventricular (mitral and cuspid) valves are

- 2** closed Atrioventricular valves are pushed open by rising atrial pressure – ventricles start to fill
- 3** Ventricles continue to fill by suction from relaxed ventricular walls and atrial contraction

- 4** Ventricles become full and stretched – atrioventricular valves close
- 5** Ventricles contract and pressure increases – aortic and pulmonary valves remain closed
- 6** Ventricles continue to contract – rising

pressure pushes open the aortic and pulmonary valves